

CLAIMS

What is claimed is:

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- 1 1. A method comprising:
2 transmitting data over a network using a first network protocol from a host
3 electronic system to one or more target electronic systems;
4 determining data not received by at least one of the target electronic systems; and
5 requesting, from the host electronic system, the data not received by at least one
6 of the target electronic systems using a second network protocol.
- 1 2. The method of claim 1 wherein the first network protocol is a non-reliable
2 network protocol.
- 1 3. The method of claim 2 wherein the non-reliable network protocol
2 comprises one of a broadcast protocol and a multicast protocol.
- 1 4. The method of claim 1 wherein the second network protocol is a reliable
2 network protocol.
- 1 5. The method of claim 1, wherein determining data not received by at least
2 one of the target electronic systems further comprises logging, with a checkpoint
3 management service, packets of data received by the target electronic systems.

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1 6. An article comprising a machine readable medium having stored thereon
2 sequences of instructions that, when executed, cause one or more electronic systems to:
3 transmit data over a network using a first network protocol from a host electronic
4 system to one or more target electronic systems;
5 determine data not received by at least one of the target electronic systems; and
6 request, from the host electronic system, the data not received by at least one of
7 the target electronic systems using a second network protocol.

1 7. The article of claim 6 wherein the first network protocol is a non-reliable
2 network protocol.

1 8. The article of claim 6 wherein the non-reliable network protocol
2 comprises one of a broadcast protocol and a multicast protocol.

1 9. The article of claim 6 wherein the second network protocol is a reliable
2 network protocol.

1 10. The article of claim 6, wherein the sequences of instructions that cause the
2 one or more electronic systems to determine data not received by at least one of the target
3 electronic systems further comprise sequences of instructions that, when executed, cause
4 the one or more electronic systems to log, with a checkpoint management service,
5 packets of data received by the target electronic systems.

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11. A computer data signal embodied in a data communications medium shared among a plurality of network devices comprising sequences of instructions that, when executed, cause one or more electronic systems to:

- transmit data over a network using a first network protocol from a host electronic system to one or more target electronic systems;
- determine data not received by at least one of the target electronic systems; and
- request, from the host electronic system, the data not received by at least one of the target electronic systems using a second network protocol.

1 12. The computer data signal of claim 11 wherein the first network protocol is
2 a non-reliable network protocol.

1 13. The computer data signal of claim 11 wherein the non-reliable network
2 protocol comprises one of a broadcast protocol and a multicast protocol.

1 14. The computer data signal of claim 11, wherein the sequences of
2 instructions that cause the one or more electronic systems to determine data not received
3 by at least one of the target electronic systems further comprise sequences of instructions
4 that, when executed, cause the one or more electronic systems to log, with a checkpoint
5 management service, packets of data received by the target electronic systems.

1 15. The article of claim 11 wherein the second network protocol is a reliable
2 network protocol.

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1 16. A method comprising:
2 transmitting a predetermined set of data using a first network protocol to multiple
3 target systems;
4 receiving one or more requests from at least one target system for subsets of data
5 from the predetermined set of data;
6 transmitting the subsets of data to at least one target system using a second
7 network protocol.

1 17. The method of claim 16 wherein transmitting a predetermined set of data
2 using a first network protocol to multiple target systems comprises logging transmitted
3 packets of data with a checkpoint management service for one or more of the target
4 systems.

1 18. The method of claim 16 wherein the first network protocol comprises a
2 non-reliable network protocol.

1 19. The computer data signal of claim 16 wherein the second network
2 protocol comprises a reliable network protocol.

1 20. An article comprising a machine readable medium having stored thereon
2 sequences of instructions that, when executed, cause one or more electronic systems to:

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3 transmit a predetermined set of data using a first network protocol to multiple
4 target systems;
5 receive one or more requests from at least one target system for subsets of data
6 from the predetermined set of data;
7 transmit the subsets of data using a reliable protocol to the at least one target
8 system using a second network protocol.

1 21. The article of claim 20 wherein the sequences of instructions that cause
2 the one or more electronic systems to transmit a predetermined set of data using a first
3 network protocol to multiple target systems comprise sequences of instructions that,
4 when executed, cause the one or more electronic systems to log transmitted packets of
5 data with a checkpoint management service for one or more of the target systems.

1 22. The article of claim 20 wherein the first network protocol comprises a
2 non-reliable network protocol.

1 23. The article of claim 20 wherein the second network protocol comprises a
2 reliable network protocol.

1 24. A method comprising:
2 receiving at least a portion of a predetermined set of data from a host system
3 using a first network protocol;

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4 generating one or more requests from for subsets of data from the predetermined
5 set of data;
6 receiving the subsets of data from the host system using a second network
7 protocol.

1 25. The method of claim 24 wherein the first network protocol comprises a
2 non-reliable network protocol.

1 26. The method of claim 24 wherein the second network protocol comprises a
2 reliable protocol.

1 27. An article comprising a machine readable medium having stored thereon
2 sequences of instructions that, when executed, cause one or more electronic systems to:
3 receive at least a portion of a predetermined set of data from a host system using a
4 first network protocol;
5 generate one or more requests from for subsets of data from the predetermined set
6 of data;
7 receive the subsets of data from the host system using a second network protocol.

1 28. The article of claim 27 wherein the first network protocol comprises a
2 non-reliable network protocol.

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